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ABSTRACT

The population of the service area of North Harris County College (NHCC) is described using a series of figures and tables. The report first discusses the census tract method used to collect the data and then looks at the NHCC service district population growth by census tract from January 1970 through September 1978 and projects the growth of the area for 1979 through 1984. Subsequently, eleven tables organize NHCC enrollment data by: (1) semester and school year; (2) average number of courses per student; (3) enrollment projections for four independent school districts (ISD's); (4) residence of students by zip code; (5) continuing education registrations and projections; (6) comparison of credit hour and continuing education growth at NHCC; (7) tuition status; (8) contact hours for academic and technical area; (9) full-time equivalents; (10) full- and part-time students; and (11) sex. Population growth in selected areas surrounding the NHCC district is then illustrated, followed by tables detailing the racial composition of the NHCC district, ISD's, and the NHCC student body. The report concludes with estimates of the average family income in the college's service district, and with tables illustrating the number of students receiving financial aid, scholarships, or veterans' benefits from 1975 through 1978. (JP)

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NORTH HARRIS COUNTY COLLEGE POPULATION STUDY

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U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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FOREWORD

The following pages represent a collection of data concerning the population of the area served by North Harris County College. Subject to the assumptions and limitations noted, the data hopefully represent as accurate a picture of the population that the statistics currently being utilized can provide.

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A. POPULATION

On January 1, 1970 the total population of the 254 square miles within the boundaries of the North Harris County College District was 111,924. The population count was determined by an examination of census tract data collected in the 1970 U. S. Census.

A study undertaken in 1977 by the College Office of Institutional Research estimated that the population of the District had increased 100% in 7½ years to a total of 223,423. A new study undertaken in 1978 by the same office showed additional population growth with the population estimated at 251,600 by September 30, 1978 -- an increase of 125% from January 1, 1970.

The census tract method was used to estimate population in the college studies. The 1970 Census provided the original data which was updated by counts of residential electrical connections supplied by the Research Division of the Chamber of Commerce. Adjustments and corrections to the data were made through information obtained from the superintendents of each of the three school districts within the College District. The map shown in Figure 1 identifies census tract locations within the College District. The map shown in Figure 2 identifies census tracts in the area surrounding North Harris County College. Table 1 shows growth within the Census Tract from 1970 to the present.

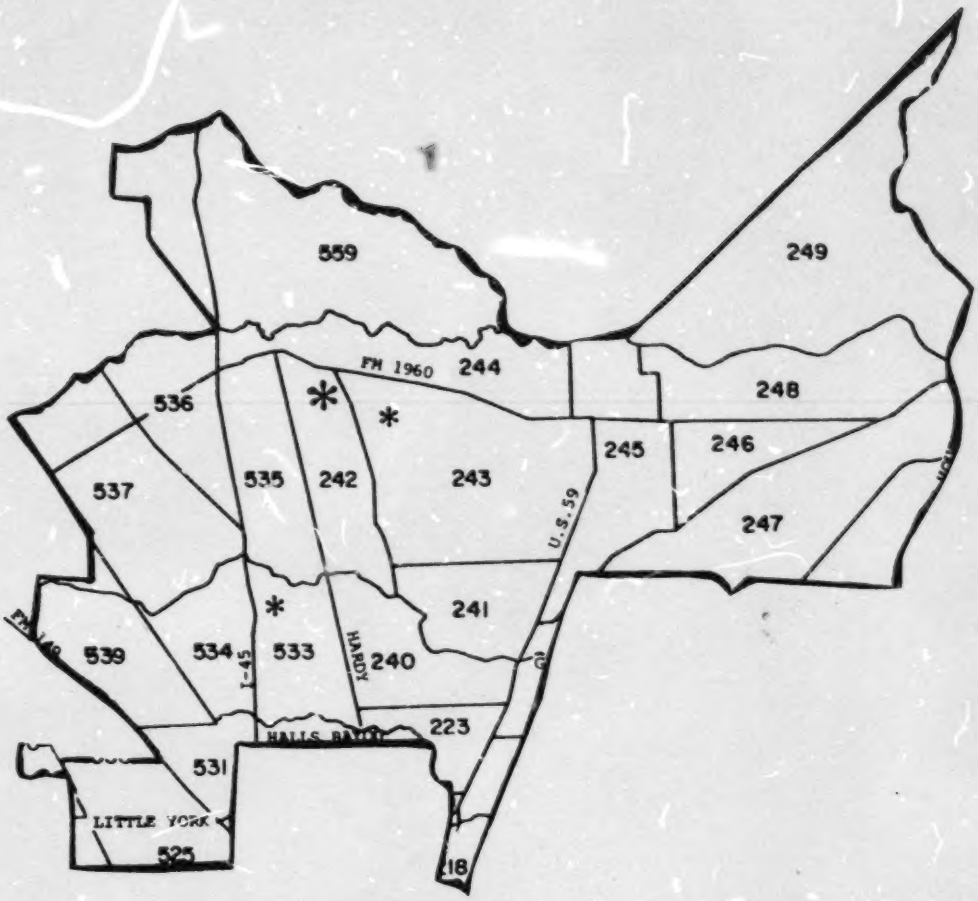

FIGURE 1

CENSUS TRACT MAP OF THE NHCC COLLEGE DISTRICT

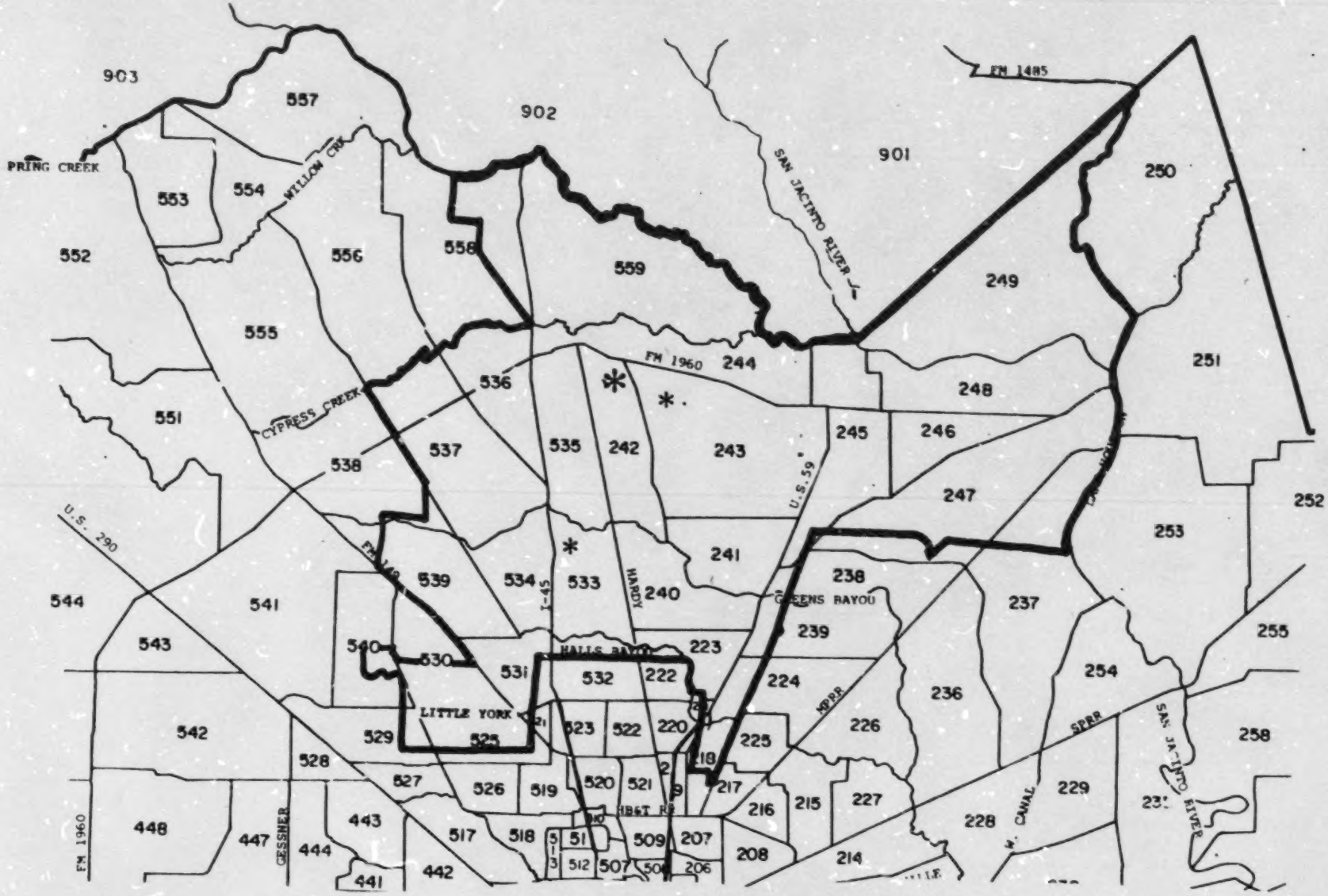

FIGURE 2

SELECTED CENSUS TRACTS SURROUNDING THE NHCC COLLEGE DISTRICT

TABLE 1

NHCC POPULATION GROWTH BY CENSUS TRACTS

Census Tract [1]	I.S.D.	% of Pop Within NHCC Boundaries	NHCC Population 1/70	NHCC Population 7/77	NHCC Population 9/78	Increase 1/70 -9/78
Wholly Within District:						
240	Aldine	100%	8469	17034	18829	10360
241	Aldine	100%	3821	5542	6485	2664
242	Aldine	100%	865	1177	1241	376
243	Aldine	100%	1733	2064	2162	429
244	Aldine	100%	1901	4985	5640	3739
246	Humble	100%	1499	1880	2490	991
248	Humble	100%	415	2486	3839	3424
249	Humble	100%	2355	12762	16050	13695
533	Aldine	100%	10695	27104	28901	18206
534	Aldine	100%	1734	6635	7168	5434
535	Ald/Spr	100%	282	348	1537	1255
536	Spring	100%	2304	11485	12947	10643
537	Spring	100%	1283	6060	8251	6968
Partially Within District:						
218	Aldine	40%	4476	5083	5181	705
222	Aldine	40%	2578	3020	3172	594
223	Aldine	90%	11026	11734	12087	1061
224	Aldine	55%	7831	10311	10678	2847
238	Aldine	10%	256	446	471	215
239	Aldine	25%	1373	1722	1931	558
245	Humble	100%	4490	7320	8495	4005
247	Humble	80%	266	2466	3453	3187
525	Aldine	75%	7994	12003	12630	4636
529	Aldine	15%	677	1907	2696	2019
530	Aldine	80%	7143	14595	16639	9496
531	Aldine	90%	12370	19071	19671	7301
532	Aldine	75%	9552	10105	10357	805
539	Aldine	85%	1526	5541	7720	6194
540	Aldine	10%	210	1412	1706	1496
558	Spring	25%	627	2906	2121	1494
559	Spring	100%	2173	14217	18475	16302
		TOTALS	111,924	223,421	253,023	141,099
					- 1,415 [2]	- 1,415 [2]
					251,608	139,684

[1] Parts of Census Tracts 221, 237, 524, and 538 lie within the North Harris County College boundaries, but are relatively unpopulated in those areas.

[2] Additional adjustment made to account for decreased household occupancy because of apartment development.

The population is projected to continue the same rapid increase within the next five years. The projections shown in Table 2 are based on the assumption that growth in the future will follow the average growth pattern of the past.

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TABLE 2

POPULATION OF THE NHCC COLLEGE DISTRICT

NHCC Population 1/1/70	111,924	(1970 U. S. Census Data)
NHCC Population 7/31/77	223,423	(NHCC College Study)
NHCC Population 9/30/78	251,608	(NHCC College Study)

Projected Population 12/31/79	271,558
Projected Population 12/31/80	287,518
Projected Population 12/31/81	303,478
Projected Population 12/31/82	319,438
Projected Population 12/31/83	335,398
Projected Population 12/31/84	351,358

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Enrollments at NHCC have increased along with the population. Table 3 shows the growth of student headcount enrollments in credit courses by semester and by school year.

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TABLE 3

NHCC HEADCOUNT ENROLLMENTS BY SEMESTER AND SCHOOL YEAR

School Year	Fall Semester*	Spring Semester	Summer Session 1	Summer Session 2	Total
1973-74	613	739	444	279	2075
1974-75	1239	1461	1040	605	4345
1975-76	2275	2404	1189	625	6493
1976-77	3177	3386	1693	816	9072
1977-78	4442	4259	2082	1032	11815
1978-79	5412	4956+			

*Includes Licensed Vocational Nursing and Cosmetology students

+Unofficial - count after late registration

.....

Enrollment projections are shown in Table 4. The enrollment projections are based on a linear regression analysis technique. The use of the technique assumes that the enrollment patterns of the past will continue in the future. Table 4 also consolidates enrollment projections with past headcount enrollment, gross course enrollments, and average number of courses per student.

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TABLE 4

NHCC FALL ENROLLMENTS AND AVERAGE # COURSES PER STUDENT

	Gross Headcount	Gross Course Enrollments	Avg # Courses Per Student
Actual:			
Fall 1973	613		
Fall 1974	1239	2379	1.92
Fall 1975	2275	4506	1.98
Fall 1976	3177	7328	2.31
Fall 1977	4442	10392	2.34
Fall 1978	5412	12562	2.32
Projected:			
Fall 1979	6230	15553	2.50
Fall 1980	7200	18239	2.53
Fall 1981	8180	20925	2.56
Fall 1982	9150	23611	2.58
Fall 1983	10120	26297	2.60
Fall 1984	11090	28983	2.61

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The NHCC expectation for continuous increases in enrollment is further verified by studies done by the surrounding independent school districts. Table 5 displays current independent school district enrollment with their projections for the future.

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TABLE 5

SELECTED I.S.D. ENROLLMENT DATA

I.S.D.	Actual Fall 78	Projected Enrollment* 79-80	80-81	81-82	82-83	83-84
Aldine	33,044					
Humble	9,156	11,707	14,055	16,195	17,988	20,000
Spring	10,255	12,158	13,493	14,635	15,674	16,806
Klein	14,555	17,700	20,400	23,100	25,800	28,500

*Information supplied by the Independent School Districts

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An examination of the zip codes of students enrolled in credit courses and in continuing education courses was made. Table 6 displays the results of that examination. The map shown in Figure 3 identifies the zip code locations in the area.

TABLE 6

RESIDENCE OF STUDENTS BY ZIP CODES

Enrolled in Credit Courses[1]			Enrolled in Continuing Education Courses[2]		
Rank	# of Students	Zip Code	Rank	# of Students	Zip Code
1	1687	77373	1	676	77373
2	794	77338	2	295	77379
3	752	77090	3	282	77338
4	685	77060	4	245	77060
5	634	77039	5	239	77088
6	633	77339	6	225	77090
7	512	77301	7	180	77339
8	487	77088	8	179	77039
9	430	77379	9	100	77066
10	355	77037	10	92	77380
11	349	77066	11	89	77037
12	305	77380	13	88	77068
13	272	77302	13	88	77086
14.5	265	77070	13	88	77093
14.5	265	77038	15	73	77073
16	252	77093	16	53	77038
17	228	77069	17	51	77032
18	213	77375	18	48	77070
19	199	77073	19	47	77040
20	191	77086	20	44	77069
21	190	77032	21	43	77301
22	185	77068	22	42	77375
23	152	77065	23	41	77076
24	149	77357	24	40	77302
25	139	77076	25	34	77092

[1] Displays zip codes accounting for 10,323, or 83% of those 12,484 students enrolled in credit courses from Summer Session 2, 1977 through Fall, 1978.

[2] Displays zip codes accounting for 3382, or 88% of those 3832 students enrolled in Continuing Education Courses Fall, 1978.

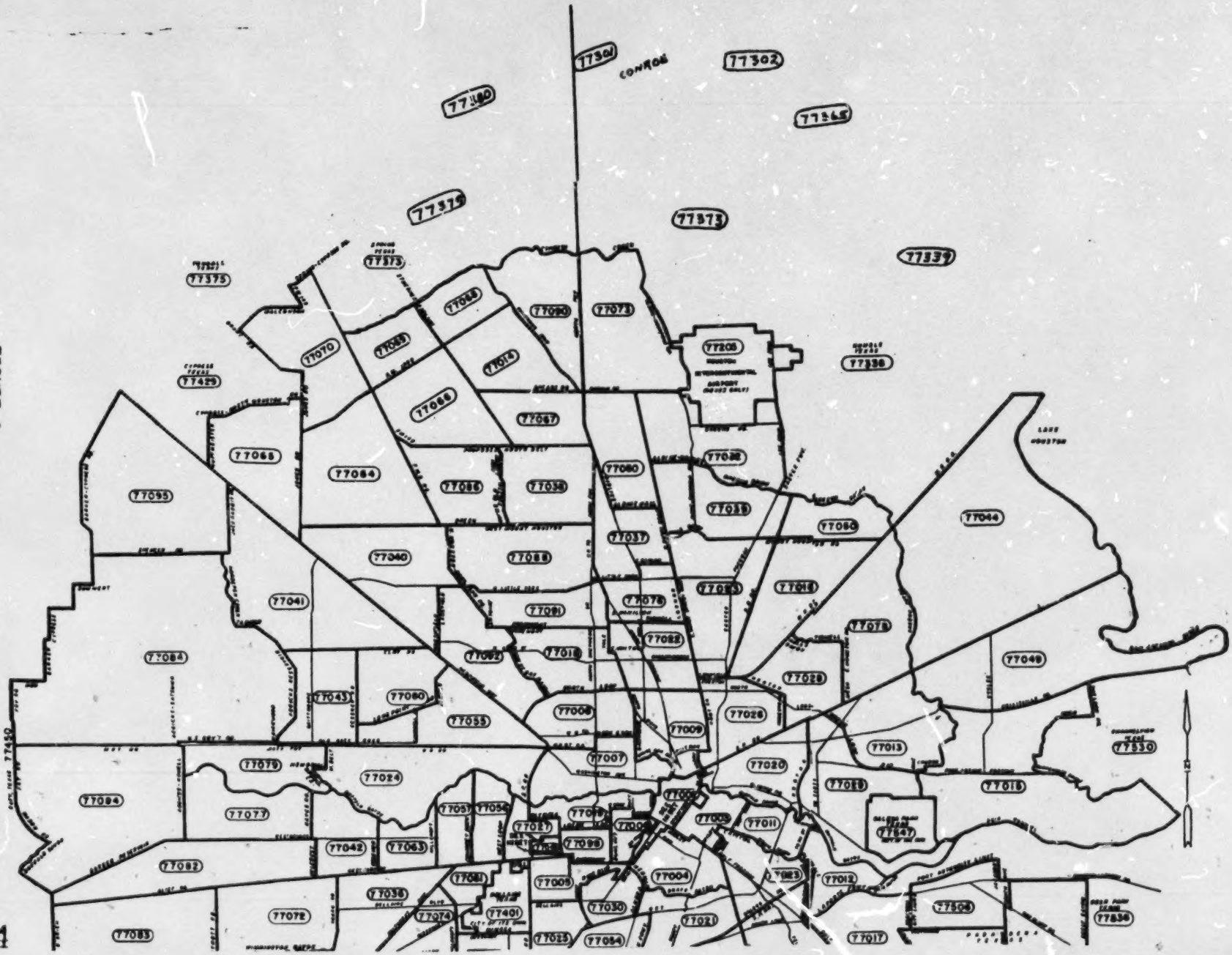

FIGURE 3

ZIP CODE LOCATIONS IN THE AREA

Community service is further provided within the NHCC by the Continuing Education Division. Classes are held at the NHCC campus as well as at Aldine, Eisenhower, MacArthur, Humble, Klein, Spring High Schools and a few classes at Aldine Contemporary Education Center. Growth in Continuing Education enrollments has kept pace with growth in the enrollment in credit courses. Table 7 shows the growth in enrollment in Continuing Education, along with projections for the future. Table 8 compares growth of credit hour courses with growth of Continuing Education.

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TABLE 7

NHCC CONTINUING EDUCATION REGISTRATIONS

1973-74*	2739
1974-75*	4081
1975-76*	4905
1976-77*	7878
1977-78*	8610
1978-Fall only	4507
Projections:	
1979 - Spring	4900
1979 - Summer	1300
1978-79*	10707
1979-80*	12000
1980-81*	13250

*Includes Fall, Spring, and Summer Sessions

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TABLE 8

COMPARISON OF CREDIT HOUR AND CONTINUING EDUCATION GROWTH AT NHCC

	Headcount Enrollment Credit Hour Courses	Gross Credit Hour Course Enrollments in Credit Courses	Continuing Education Registrations
Fall 1973	613		
Fall 1974	1239	2379	1847
Fall 1975	2275	4506	1942
Fall 1976	3177	7328	2817
Fall 1977	4442	10392	3141
Fall 1978	5412	12562	4507

.....

Additional information analyzing growth at NHCC is displayed in Tables 9, 10, 11, 12, and 13.

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TABLE 9

NHCC HEADCOUNT ENROLLMENTS IN CREDIT HOUR COURSES BY TUITION STATUS

Year	In District		Out of District		Out of State & Foreign		Total Enrollments	
1973-74*	1432	69%	590	29%	42	2%	2064	100%
1974-75*	2821	65%	1457	34%	50	1%	4328	100%
1975-76*	4156	65%	2142	33%	141	2%	6439	100%
1976-77*	5338	59%	3366	38%	300	3%	9004	100%
1977-78*	6407	55%	4836	41%	467	4%	11710	100%
1978 Fall only	2831	53%	2262	43%	214	4%	5307	100%

*Includes Fall, Spring, and two Summer Sessions

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TABLE 10

NHCC CONTACT HOURS - SELECTED DATA

Semester	Academic		Technical-Vocational		Total Contact Hours	
Spring 1977	285,712	62%	177,160	38%	462,872	100%
Summer 1, 1977	81,076	56%	63,915	44%	144,991	100%
Summer 2, 1977	41,211	69%	18,475	31%	59,686	100%
Fall 1977	391,520	64%	215,840	36%	607,360	100%
Spring 1978	357,104	62%	219,216	38%	576,320	100%
Summer 1, 1978	96,861	53%	87,196	47%	184,057	100%
Summer 2, 1978	49,952	66%	25,440	34%	75,392	100%
Fall 1978	469,776	63%	277,504	37%	747,280	100%
Spring 1979*	465,112	64%	267,312	36%	732,424	100%

*Unofficial, after late registration

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TABLE 11

NHCC FULLTIME EQUIVALENTS (FTE)* - SELECTED DATA

Semester	Academic		Technical-Vocational		Total FTE	
Spring 1977	1296	65%	684	35%	1980	100%
Summer 1, 1977	736	60%	484	40%	1220	100%
Summer 2, 1977	not available --					
Fall 1977	1761	67%	863	33%	2624	100%
Spring 1978	1639	65%	883	35%	2522	100%
Summer 1, 1978	874	58%	644	42%	1518	100%
Summer 2, 1978	457	64%	259	36%	716	100%
Fall 1978	2091	65%	1125	35%	3216	100%
Spring 1978+	2026	66%	1031	34%	3057	100%

*By credit hours

+Unofficial, after late registration

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TABLE 12

NHCC FULL AND PART TIME STUDENTS - SELECTED DATA*

Semester	Full Time		Part Time		Total	
Spring 1977	668	20%	2718	80%	3386	100%
Summer 1,1977	585	35%	1108	65%	1693	100%
Summer 2,1977	-		-		816	100%
Fall 1977	918	21%	3419	79%	4337	100%
Spring 1978	863	20%	3396	80%	4259	100%
Summer 1,1978	738	35%	1344	65%	2082	100%
Summer 2,1978	357	35%	675	65%	1032	100%
Fall 1978	1119	21%	4188	79%	5307	100%
Spring 1979+	1141	23%	3815	77%	4956	100%

*A full-time student is enrolled in a minimum of 12 semester hours
+Unofficial, after late registration

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TABLE 13

SEX OF NHCC STUDENTS - SELECTED DATA

Semester	Male		Female		Total	
Spring 1977	1691	50%	1695	50%	3386	100%
Summer 1,1977	793	47%	900	53%	1693	100%
Summer 1,1977	398	49%	418	51%	816	100%
Fall 1977	1976	46%	2361	54%	4337	100%
Spring 1978	1969	46%	2290	54%	4259	100%
Summer 1,1978	921	44%	1161	56%	2082	100%
Summer 2,1978	471	46%	561	54%	1032	100%
Fall 1978	2427	46%	2880	54%	5307	100%
Spring 1979*	2274	46%	2682	54%	4956	100%

*Unofficial, after late registration

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Population growth in the greater Houston area is as phenomenal around the North Harris County College boundaries as it is within them. The map in Figure 2 identifies census tracts surrounding NHCC. Table 14 represents selected data about growth in the surrounding area.

TABLE 14

POPULATION GROWTH IN SELECTED AREAS OUTSIDE NHCC[1]

Census Tract	Population 1/70	Population 9/78	Increase 1/70-9/78
224	14,239	19,415	5,176
225	15,844	17,178	1,334
226	3,014	7,837	4,823
236	1,747	4,987	3,240
237	625	1,486	861
238	2,560	4,709	2,149
239	5,490	7,723	2,233
Totals	43,519	63,335	19,816
250	458	930	472
251	1,917	4,105	2,188
253	1,063	3,690	2,627
Totals	3,438	8,725	5,287
527	9,680	13,496	3,816
528	2,033	3,298	1,265
529	4,513	17,972	13,459
540	2,102	17,064	14,962
541	1,926	13,826	11,900
542	2,230	9,825	7,595
543	492	2,433	1,941
551	1,236	10,019	8,783
Totals	24,212	87,933	63,721
538	1,994	15,742	13,748
552	1,191	2,787	1,596
553	2,734	4,079	1,345
554	435	835	400
555	941	8,110	7,169
556	1,731	10,388	8,657
557	460	1,301	841
558	2,508	14,139	11,631
Totals	11,994	57,381	45,387
901	5,891	11,782	5,891
902	5,192	10,384	5,192
903	3,760	7,520	3,760
Totals[2]	14,843	29,686	14,843

[1] This data has been accumulated by updating 1970 census date with Chamber of Commerce data. Verification with I.S.D.'s has not been made.

[2] A population increase of 100% has been used to update Montgomery County 1970 statistics -- applicability to individual census tracts is limited.

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B. ETHNICITY

While precise comparative counts to show the changes in racial mix between January 1, 1970 and September 30, 1978 were not available, estimates of the racial mix were based on an examination of the inhabitants of each census tract. Information from area experts (President Thorne and local superintendents) was used to estimate the race of the population residing in the College District. (See Table 15.)

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TABLE 15

NHCC DISTRICT POPULATION BY RACE - 9/30/78

Total Population	251,608	100%
Black	29,186	11.6%
Spanish-surnamed	21,638	8.6%
Other	200,784	79.8%

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Local independent school district information fairly well approximate the ethnic estimates made for the College District (compare Table 16 to Table 15).

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TABLE 16

INDEPENDENT SCHOOL DISTRICT ENROLLMENTS BY RACE

	Fall 1978 Enrollment	All Other	Black	Spanish Surnamed	Free/Reduced Lunch
Aldine	33,044	22,983	4,885	5,176	6,375
Humble	9,156	8,827	100	229	128
Spring	10,255	9,716	228	311	255
TOTALS	52,455	41,526	5,213	5,716	6,502
	100%	79.1%	10%	10.9%	12.4%*
*Applied against the total enrollment of 52,455					
Klein	14,555	13,638	588	329	377
	100%	93.7%	4%	2.3%	2.6%

.....

Students enrolled in credit hour courses are identified by race in Table 17.

.....

TABLE 17

NHCC ENROLLMENTS[1] BY RACE

	TOTAL (100%)	Black		Spanish Surnamed		Other	
Fall 1973[2]	602	17	2.8%	39	6.5%	546	90.7%
Fall 1974	1222	36	3%	70	5.7%	1116	91.3%
Fall 1975	2222	183	8.2%	117	5.3%	1922	86.5%
Fall 1976	3109	104	3.3%	130	4.2%	2875	92.5%
Fall 1977	4337	173	4%	223	5.1%	3941	90.9%
Fall 1978	5307	216	4%	272	5.2%	4819	90.9%

[1] Students enrolled in credit hour courses

[2] Figures do not include LVN and Cosmetology

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C. INCOME

Income information that is accurate and specific by census tracts after the 1970 Census has not been located by this research, although several sources claiming these characteristics have been reviewed. The best information that has been obtained supplied the following:

Median Family Income within the NHCC District on September 30, 1978 is estimated at $19,018. The estimate is based on 1970 Census Tract data updated through use of the Consumer Price Index.

The 1975 U. S. Department of Labor budgets* for the Houston area are as follows:

$8968 for a lower income family
$14,020 for an intermediate income family
$20,090 for a higher income family

*Taken from Handbook of Labor Statistics, Bulletin 1966, pages 269-275.

These budgets may be adjusted to September, 1978 by a CPI method -- 9/31/78 CPI - 211.5 / 10/75 CPI - 168.7 (1967=100).

Using this method, the September 30, 1979 budgets for a family in the Houston area may be estimated as:

$11,245 for a lower income family
$17,581 for an intermediate income family
$25,193 for a higher income family

Approximately 12.4% of the College District population (or 31,200 people) are estimated to fall within the lower income family range. This information was obtained from numbers of free or reduced lunch students in the three school districts within the NHCC boundaries and is displayed in Table 15 in Section B on Ethnicity.

The total number of students receiving financial aid, scholarships, or veterans' benefits is shown in Table 18. Table 19 shows that the percentage of students receiving financial aid has been increasing, while the percentage of veterans has been decreasing.

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TABLE 18

STUDENTS RECEIVING FINANCIAL AID, SCHOLARSHIPS, OR VETERANS BENEFITS

Semester	Financial Aid & Scholarship Recipients	Veterans	Totals
Fall 1975	88	441	529
Fall 1976	147	479	626
Fall 1977	219	531	750
Fall 1978	320	560	880

.....

TABLE 19

STUDENTS RECEIVING FINANCIAL AID, SCHOLARSHIPS, OR VETERANS BENEFITS AS A PERCENTAGE OF ENROLLMENT*

Semester	Total Enrollment	Financial Aid & Scholarship Recipients	Veterans	Financial Aid/ Scholarship/ Veteran Benefits
Fall 1975	2222	4%	19.8%	23.8%
Fall 1976	3109	4.7%	15.4%	20.1%
Fall 1977	4337	5%	12.3%	17.3%
Fall 1978	5338	6%	10.5%	16.5%

*In credit hour courses

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